



D0 Status Report

8/1/2005

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Data Taking for 7/25 – 7/31

Day	Delivered	Recorded	Eff.	Comments
7/25 (Mon)	3.24 pb ⁻¹	2.21 pb ⁻¹	68 %	PDT DW30 HV trips due to high humidity triggered other subsystems to break: 50 min downtime for Calorimeter SBC problems, 1 hour and 40 min downtime for Muon readout problems, 25 min downtime for CFT readout
7/26 (Tue)	0.84 pb ⁻¹	0.75 pb ⁻¹	89 %	45 min downtime due to PDT DW46 trip. Controlled access to replace DFEA for CTT sectors 78/79.
7/27 (Wed)	1.59 pb ⁻¹	1.26 pb ⁻¹	79 %	1 hour and 20 min downtime due to many SBC errors and L3 supervisor problem
7/28 (Thu)	0.89 pb ⁻¹	0.77 pb ⁻¹	87 %	
7/29 (Fri)	2.31 pb ⁻¹	2.06 pb ⁻¹	89 %	
7/30 (Sat)	2.55 pb ⁻¹	2.29 pb ⁻¹	90 %	40 min downtime due to CFT readout problems. Hit hard by the quench.
7/31 (Sun)	2.01 pb ⁻¹	1.49 pb ⁻¹	74 %	L1 Cal rack tripped due to water leak, 2 hour downtime.
7/25 – 7/31	13.43 pb ⁻¹	10.83 pb ⁻¹	81 %	



Notable events

- 7/25 (Mon)
 - Constant PDT DW30 HV trips (possibly due to high humidity) seem to have set off problems in other subsystems.
 - 50 min downtime for Calorimeter SBC problems
 - 1 hour and 40 min downtime for Muon readout problems
 - 25 min downtime for CFT readout
 - We don't know how they are correlated to the trips yet
- 7/26 (Tue)
 - Controlled access to replace a CTT DFE board for sectors 78/79.
 - All CTT sectors are now working.
- 7/27 (Wed)
 - Multiple SBC and L3 supervisor problems cost us 1 hour and 20 min of downtime.



Notable events

- 7/28 (Thu)
 - Found that the L3 system has been running with a wrong geometry file for the last two weeks and put in a temporary fix.
 - Affected STT triggers.
 - Controlled access
 - To work on a BLS cable harness and to replace a BLS PS.
 - Needed to replace the PS twice and repair a damaged cable in the process.
 - To replace a CTT CTOC card.
 - To test a Run 2b muon PDT control board.
 - To work on PDT grounding.

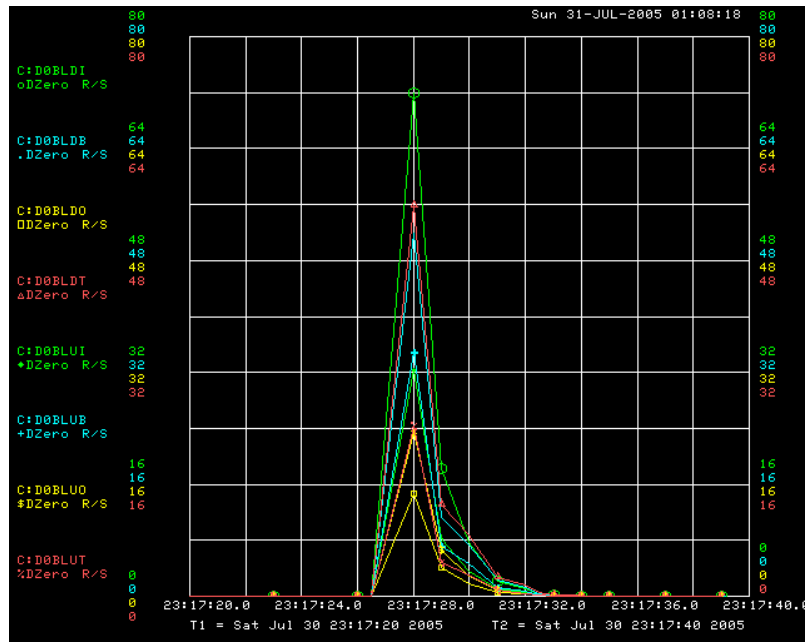


Notable events

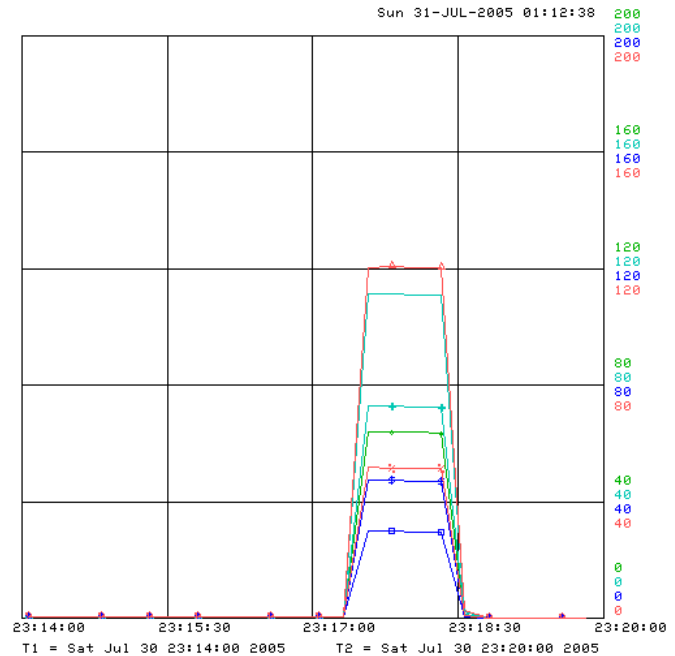
- 7/29 (Sat)
 - 45 min downtime due to CFT readout errors.
 - Hit hard by Tev quench.
 - Received 120 rad.
 - Pulled beam abort.
- 7/31 (Sun)
 - Water leak in L1Cal rack.
 - 2 hour downtime.
 - Water leak is re-directed for now.
 - Trying to come up with a permanent solution.
- Statistics for July
 - Delivered: 52 pb⁻¹, Recorded: 43 pb⁻¹, Eff:83%



SMT BLM dose rate



Abort limit:
12.6 Rad/sec



Integrated dose:
120 Rad



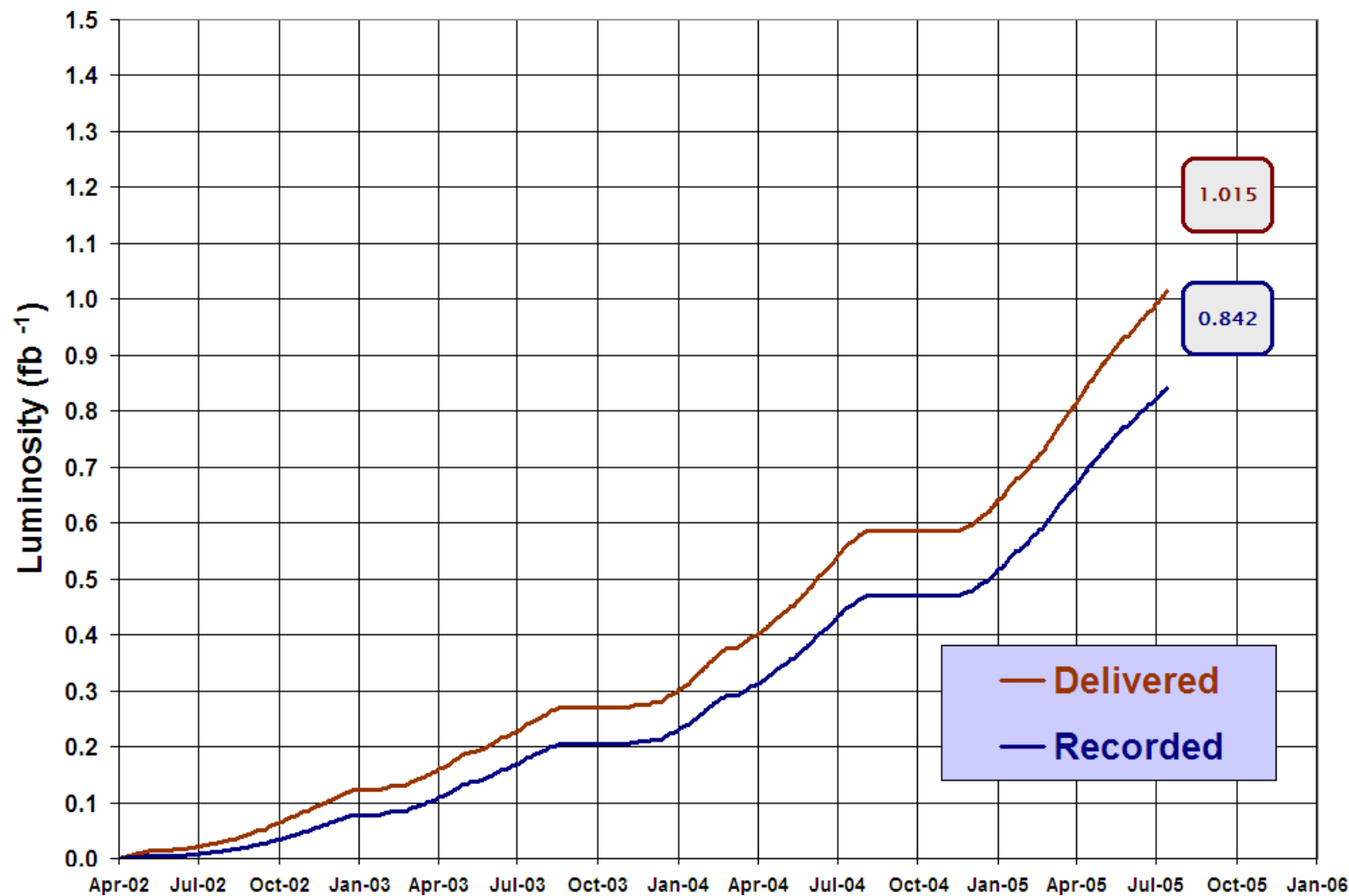
L1 CALTRIG [13 TO 16]	L1 CALTRIG [-13 TO -16]	L1 CALTRIG [17 TO 20]	L1 CALTRIG [-17 TO -20]	BLOWER
M109	M110	M111	M112	M113
A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	
GRATE 1	GRATE 1	GRATE 1	GRATE 1	
A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	
GRATE 2	GRATE 2	GRATE 2	GRATE 2	
A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	A/W HEAT EXCHANGER	
GRATE 3	GRATE 3	GRATE 3	GRATE 3	
AIR DUCT	AIR DUCT	AIR DUCT	AIR DUCT	
BLOWERS	BLOWERS	BLOWERS	BLOWERS	
CABLE PASS-THRU	CABLE PASS-THRU	CABLE PASS-THRU	CABLE PASS-THRU	
POWER SUPPLY (GRATE 1)	POWER SUPPLY (GRATE 1)	POWER SUPPLY (GRATE 1)	POWER SUPPLY (GRATE 1)	
POWER SUPPLY (GRATE 2)	POWER SUPPLY (GRATE 2)	POWER SUPPLY (GRATE 2)	POWER SUPPLY (GRATE 2)	
POWER SUPPLY (GRATE 3)	POWER SUPPLY (GRATE 3)	POWER SUPPLY (GRATE 3)	POWER SUPPLY (GRATE 3)	

Radiators
failed yesterday



Run II Integrated Luminosity

19 April 2002 - 31 July 2005



1 August 2005

T. Yasuda, Fermilab